```
> type(1, integer);
```

$$true$$

```
> isprime(17);
```

$$true$$

```
> ifactor(18);
```

$$(2)\,(3)^2$$

```
> nextprime(18);
```

$$19$$

```
> prevprime(18);
```

$$17$$

```
> a:=1234: b:=56:
> q:=iquo(a,b);
```

$$q := 22$$

```
> r:=irem(a,b);
```

$$r := 2$$

```
> testeq(a=q*b+r);
```

$$true$$

```
> igcd(a,b);
```

$$2$$

```
> evalf(25^(1/6));
```

$$1.709975947$$

```
> Digits:=20;
```

$$Digits := 20$$

```
> evalf(Pi);evalf(exp(1));
```

$$3.1415926535897932385$$

$$2.7182818284590452354$$

```
> restart;
> evalc(1/(2+a-b*I));
```

$$\frac{2+a}{(2+a)^2+b^2} + \frac{\mathrm{I}\,b}{(2+a)^2+b^2}$$

```
1.is_integer()
```
True

```
17.is_prime()
```
True

```
factor(18)
```
$2 \cdot 3^2$

```
next_prime(18)
```
19

```
previous_prime(18)
```
17

```
a=1234;b=56
```

```
q=a//b;q
```
22

```
r=a%b;r
```
2

```
bool(a==q*b+r)
```
True

```
gcd(a,b)
```
2

```
n(25^(1/6))
```
1.70997594667670

```
n(25^(1/6),digits=20)
```
1.7099759466766969894

```
n(pi);n(e)
```
3.14159265358979
2.71828182845905

```
var('a,b')
```
(a, b)

```
(1/(2+a-b*I)).rectform().show()
```
$$\frac{a+2}{(a+2)^2+b^2}+\frac{i\,b}{(a+2)^2+b^2}$$